

Amendments to the Specification:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

Claim 1 (previously presented): Device for use in sports and games for detecting the position of impact of a moveable object, such as a ball, in particular tennis ball, baseball or the like, comprising a sheet or mat with an outer and an inner layer, the sheet or mat forming a target surface and having embedded therein a plurality of electrically conductive elements forming pressure sensitive switches distributed over the target surface and communicating with electronic circuits for outputting, processing and displaying electrical signals from pressure sensitive switches when activated by said impact or pressure, characterized in that:

- the underneath side of the outer layer of the sheet or mat is provided with a first pattern of electrically conductive elements at least at the positions of the pressure sensitive switches,
- the upper side of the inner layer of said sheet or mat is provided with a second pattern of electrically conductive elements at least at the positions of the pressure sensitive switches,
- the first pattern of electrically conductive elements and the second pattern of electrically conductive elements are arranged so as to enable temporary contact to be established at the positions of the pressure sensitive switches,
- an insulation layer between said outer and inner layers is provided with cavities or holes at the positions of the pressure sensitive switches for establishing temporary contact therein, and from each cavity or hole at least one opening directed sideways for air movement during said impact or pressure activation, and

- at least one of the first and second patterns of electrically conductive elements, is subdivided into a number of individual zones, where each zone comprises a plurality of said pressure sensitive switches, and the electronic circuits have separate connections to each of said individual zones.

Claim 2 (previously presented): Device according to claim 1, wherein the character and/or the thickness of the insulation layer determine(s) the detection sensitivity.

Claim 3 (previously presented): Device according to claim 1, wherein the second pattern of electrically conductive elements is applied on an upward surface of an inner support layer joined with the inner layer.

Claim 4 (previously presented): Device according to claim 1, intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches.

Claim 5 (previously presented): Device according to claim 1, wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements.

Claim 6 (previously presented): Device according to claim 1, wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion

at each position of the pressure sensitive switches, each zone comprising a number of protrusions.

Claim 7 (previously presented) Device according to claim 6, wherein said hollow and flexible protrusions inherently provides for a sufficient degree of elastic deformation when activated by said impact or pressure, which also affects the degree of detection accuracy.

Claim 8 (previously presented): Device according to claim 6, wherein said hollow and flexible protrusions are further provided with spring elements, preferably of metal, for obtaining a sufficient degree of elastic deformation when activated by said impact or pressure.

Claim 9 (previously presented): Device according to claim 6, wherein the shape of said protrusions is substantially circular as seen in plan view.

Claim 10 (previously presented): Device according to claim 1, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 11 (previously presented): Device according to claim 10, wherein said at least one line, located or provided on said surface, contains line zones having pressure sensitive switches, preferably with said line zones arranged in the longitudinal direction of said at least one line.

Claim 12 (previously presented): Device according to claim 2, wherein the second pattern of electrically conductive elements is applied on an upward surface of an inner support layer joined with the inner layer

Claim 13 (previously presented): Device according to claim 2, intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches.

Claim 14 (previously presented): Device according to claim 3, intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches.

Claim 15 (previously presented): Device according to claim 2, wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements.

Claim 16 (previously presented): Device according to claim 3, wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements.

Claim 17 (previously presented): Device according to claim 4, wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements.

Claim 18 (previously presented): Device according to claim 2, wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of the pressure sensitive switches, each zone comprising a number of protrusions.

Claim 19 (previously presented): Device according to claim 3, wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of the pressure sensitive switches, each zone comprising a number of protrusions.

Claim 20 (previously presented): Device according to claim 4, wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of the pressure sensitive switches, each zone comprising a number of protrusions.

Claim 21 (previously presented): Device according to claim 5, wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of the pressure sensitive switches, each zone comprising a number of protrusions.

Claim 22 (previously presented): Device according to claim 7, wherein said hollow and flexible protrusions are further provided with spring elements, preferably of metal, for obtaining a sufficient degree of elastic deformation when activated by said impact or pressure.

Claim 23 (previously presented): Device according to claim 7, wherein the shape of said protrusions is substantially circular as seen in plan view.

Claim 24 (previously presented): Device according to claim 8, wherein the shape of said protrusions is substantially circular as seen in plan view.

Claim 25 (previously presented): Device according to claim 2, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 26 (previously presented): Device according to claim 3, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 27 (previously presented): Device according to claim 4, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a

standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 28 (previously presented): Device according to claim 5, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 29 (previously presented): Device according to claim 6, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 30 (previously presented): Device according to claim 7, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 31 (previously presented): Device according to claim 8, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.

Claim 32 (previously presented): Device according to claim 9, wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line.